



Titan Range - Specification Sheet



Basic Description

The Titan Power supply is designed for high speed, high power capacitor charging applications at voltages up to 120kV, 45kJ/sec and PRFs as high as 250Hz.

It uses a rugged IGBT based inverter running in resonant mode to achieve high efficiency and excellent ruggedness.

It is designed either to run from high DC voltages (typically 550V) or from UK/EU3-phase mains inputs.

Input	Example 1 ↗	Example 2 ↗
Voltage source	415Vac three phase mains input	

Output	Example 1 ↗	Example 2 ↗
Power	45000J/sec	
Output voltage	0 to 60kV	0 to 120kV
Output current	1.65A maximum	0 to 800mA
Polarity	Positive or negative	
Repetition rate	250Hz maximum	
Duty cycle	2 seconds on-load by 2 minutes off-load operation	
Guard band protection	200µ fixed after load discharged	
HV connector	Proprietary connector	
HV cable	Mating cable and connector supplied with PSU	
Cable length	3 metres detachable	

Control	Example 1 ↗	Example 2 ↗
Charge enable	Fibre optic input, active light on	
Voltage program	Adjusted by 10 turn potentiometer with a DVM reading on front panel	
Voltage monitor	0 to 10V represents 0 to 60kV output through BNC connector	
End of charge	Fibre optic output, active light on	

Environment	Example 1 ↗	Example 2 ↗
Operation temperature	10 to 40°C	
Storage temperature	-10 to 60°C	
Humidity	0-90% (non-condensing)	
Cooling	Forced air	

Mechanical	Example 1 ↗	Example 2 ↗
Height	9U	11U
Depth	560mm (Handles excluded)	780mm (Handles excluded)
Width	19" Rack	605mm
Weight	70kg	100kg